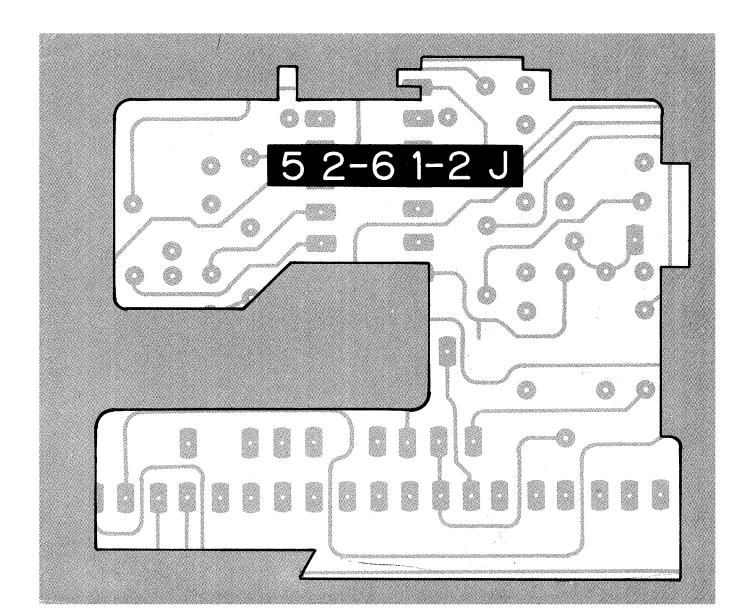
SINGER

9143 / 7050



CONGRATULATIONS

You have entered into a new age of sewing. Your machine features many breakthroughs in sewing technology that are advanced and very easy to use. You have purchased the finest and most advanced sewing machine available on the market today.

The enhancements are:

- The LCD Sew and Tell window that gives you detailed sewing information at a fingertip.
- An LCD clock conveniently placed on the machine's face.
- A new light bulb engineered to provide maximum illumination to the sewing area.

The LCD Sew and Tell window contains everything you need to know about all 25 stitches.

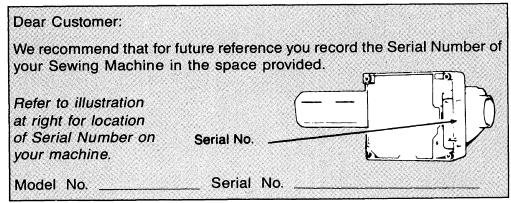
Turn the pattern select knob, and the name of the stitch appears in the window.

Press the button once and the information Window appears. This window suggests the stitch length and stitch width settings for each and every pattern. The same window tells you which presser foot to use and the number of the pattern. This number matches the graphics of the selected pattern that is shown just to the right of the window.

Press the button again and the Special Instruction Window appears in this window, suggestions scroll across the window providing detailed information about every stitch.

There is no need to search the instruction book, it's all right here in front of you.

The following information tells you about the special features on your new sewing machine. Take a few moments to learn how to operate and care for these new additions, and you will see how sewing has been made easier and more exciting than ever!



To ensure that you are always provided with the most modern sewing capabilities, the manufacturer reserves the right to change the appearance, design or accessories of this sewing machine when considered necessary.

PART NO. 137570-001

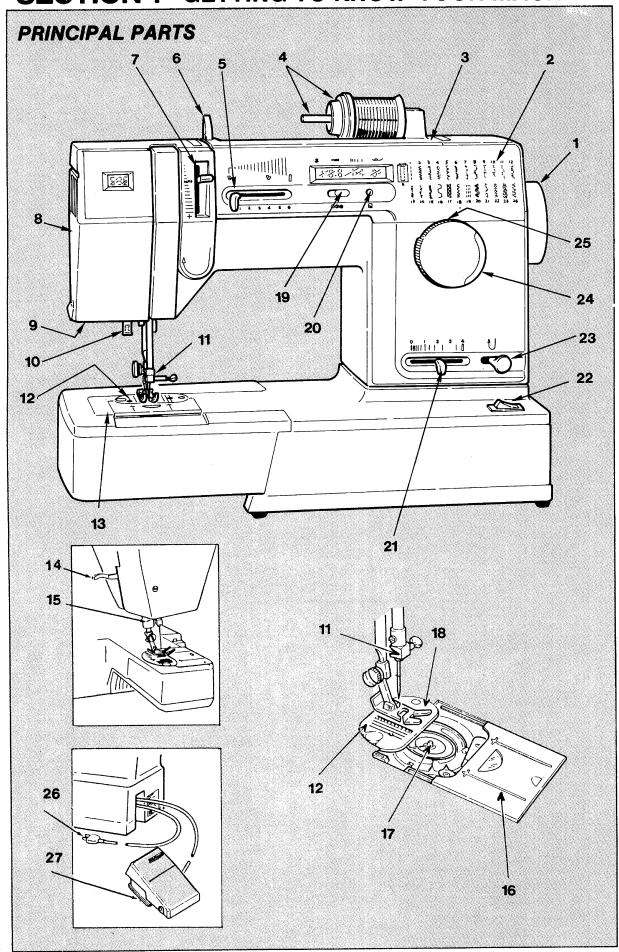
*A Trademark of The Singer Company

Printed in Taiwan

TABLE OF CONTENTS

	Getting to Know Your Machine	•
٦.		
	Principal Parts	
	Built-in Accessory Storage	4
	Accessories	4
	Important Safeguards	. 6
	Connecting the Machine/Running the Machine	
•	Getting Ready to Sew	
	Fabric, Thread and Needle Table	
	Handle Storage	
	Choosing and Changing Needles	10
	Free Arm Sewing	
	Changing the Presser Foot	
	Replacing Presser Foot with Shank	
	Attaching Darning and Embroidery Foot	19(21)(5)(01)(6)(5)
	Attaching Feed Cover	
	Changing the Needle Plate	
	Threading the Machine	
	Using the Needle Threader	14
	Winding a Bobbin	15
	Inserting a Wound Bobbin	17
	Raising the Bobbin Thread	.18
	LCD Pattern Selection	19
3.	Straight Stitching	100
	Preparation	
	Sewing a Seam	
	Darning	
	Free Motion Embroidery	
	Inserting a Zipper	
4		
4.	Special Stitches	
	Preparation	
	Zig-Zag Stitch	
	Zig-Zag Blindstitch	
	Multi Stitch Zig-Zag	Time the last
	"M" Stitch	
	Crescent Stitch/Chinese Dynasty Stitch/Kite Tail Stitch	
	Arrow Stitch/Bunting Stitch	
	Decorative Stitches	32
	Turkish Stitch	34
	Stretch Overedge Stitch	34
	Ric-Rac/Straight Stretch Stitch	35
	Crown/Fagoting Stitch	35
	Honeycomb Stitch	
	Straight Featherstitch	
5.	Buttonholes and Buttons	
	One-Step Buttonholing	
	Attaching a Buitton	
£	Caring for Your Machine	
J.	Removing and Replacing Bobbin Case	
	Removing and Replacing Light Bulb	
	LCD Clock Operation Instructions	and the state of
	Cleaning the Machine	
	Performance Checklist	
	Additional Accessories Personal Notes	
	Index	49
		Bank.

SECTION 1 GETTING TO KNOW YOUR MACHINE



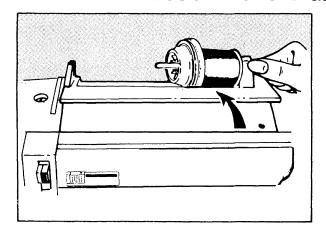
Principal Parts

- 1. Hand Wheel provides a means for raising or lowering the needle.
- 2. Pattern Display shows a variety of patterns available for your sewing needs. Pattern indicator appears under the pattern you select by turning Pattern Selector Dial, #24.
- Built-In Accessory Storage, under top cover of machine, provides a neat and convenient area to keep accessories.
- 4. Spool Pin and Cap hold the top thread supply and allow it to unwind smoothly as the spool does not turn.
- Stitch Width Lever controls the width of patterns and sets the needle for straight stitching.
- 6. Thread Guide helps to insure a smooth flow of thread from the spool to the tension.
- 7. Thread Tension Lever controls top thread tension.
- 8. Face Plate is a removable cover protecting movable parts and sewing light.
- Sewing Light illuminates sewing area.
- Buttonhole Lever activates the onestep buttonholer.
- 11. Needle Clamp holds needle in machine and prevents incorrect insertion.
- 12. Needle Plate supports the fabric during sewing.
- 13. Removable Extension Table lets you change the machine bed from flat to free arm.
- 14. Presser Foot Lifter, at the back of machine, lets you raise and lower presser foot.

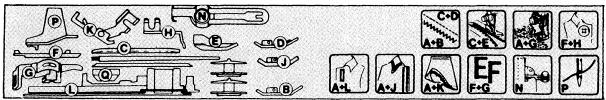
15. Thread Cutter

- 16. Slide Plate, with window to see bobbin thread supply, opens for easy removal and replacement of bobbin. It also activates the bobbin winder.
- 17. Bobbin Winder is built into machine and allows you to switch from sewing to bobbin winding without removing bobbin.
- 18. Presser Foot holds fabric against the feed system and snaps on and off.
- 19. Screen Contrast
- 20. Stitch Information Button
- 21. Stitch Length Lever allows for a variety of stitch lengths.
- 22. Power and Light Switch turns on the machine and sewing light at the same time.
- 23. Reverse Lever provides either momentary or continuous reverse fabric movement.
- 24. Pattern Selector Dial lets you move the pattern indicator to any of the patterns, plus buttonhole, shown on the pattern display panel.
- 25. Balance Control adjusts appearance of Special Stitch patterns and buttonholes.
- 26. Electrical Power Cord connects machine to your electrical outlet.
- 27. Speed Controller, designed for safety and convenience, regulates the electronic solid state speed control.

BUILT-IN ACCESSORY STORAGE



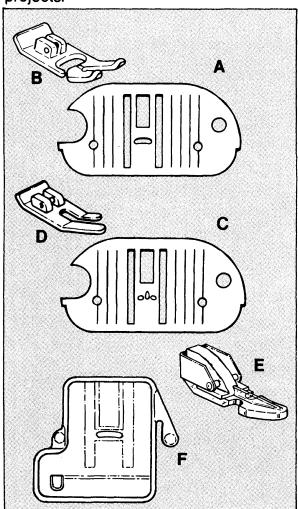
The letter-coded accessories accompanying your machine are conveniently kept in the built-in accessory storage under the top lid of the machine. The chart on the left side of the lid identifies the location of the accessories. The chart on the right side gives the accessory combinations for the illustrated applications. For example, to sew a button, use the feed cover (F) with the button sewing foot (H).



NOTE: This chart gives only a sampling of applications. Additional applications may be found in other sections of this manual. Lint brush can be used to aid removal of accessories.

ACCESSORIES

The accessories for your machine are designed to simplify many of your sewing projects.

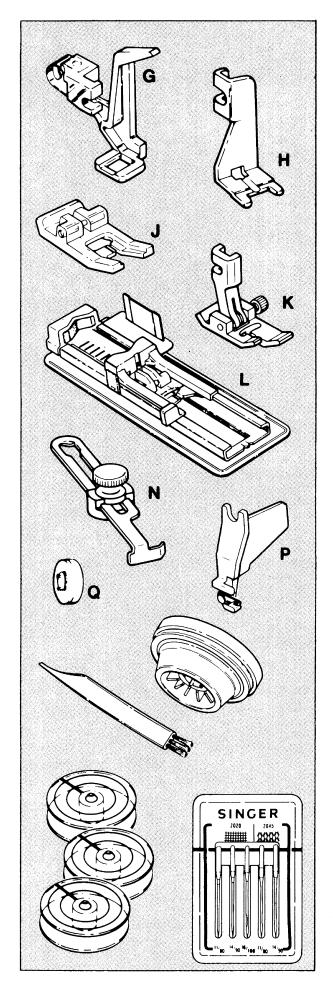


General Purpose Needle Plate (A), and Presser Foot (B), are standard on the machine. Used for straight and zig-zag stitching.

Straight Stitch Needle Plate (C), and Presser Foot (D), used when straight stitching the feed from moving fabric.

Zipper Foot (E), for inserting zippers.

Feed Cover (F), used for button sewing, free motion work and darning. It keeps the feed from moving fabric.



Darning and Embroidery Foot (G) is recommended for free motion work, such as embroidery, monogramming and decorative designs.

Button Sewing Foot (H) hold buttons securely for fastening.

Special Purpose Presser Foot (J), used for decorative and zig-zag sewing.

Blindstitch Presser Foot (K) helps guide fabric for nearly invisible blindstitch hems.

One-Step Buttonhole Attachment (L), used to stitch a complete buttonhole in one single step.

Seam Guide (N) helps keep seam allowances even.

Needle Threader (P) assists in threading machine needle.

Small Thread Spool Cap (Q) for use with small diameter spools of thread.

Thread Spool Cap for medium and large thread spools.

Lint Brush, for cleaning the machine.

Bobbins, transparent for easy viewing of thread supply.

Needle Pack includes an assortment for sewing various types of fabrics.

IMPORTANT SAFETY INSTRUCTIONS

When using this machine, basic safety precautions should always be followed including the following:

Read all instructions before using this machine.

DANGER.

To reduce the risk of electric shock:

- The machine should never be left unattended when plugged in. Always unplug the machine from the electric outlet immediately after using and before cleaning.
- Always unplug before changing light bulb. Replace bulb with the same type rated 12 volts, 5 watts. Be sure to replace the face plate which covers the light blub before operating the machine.

WARNING.

To reduce the risk of burns, fire, electric shock or injury to persons:

- Be sure that the electrical voltage of the socket outlet (wall receptacle) is the same as the rated voltage of the motor.
- Use this machine only for its intended use as described in this Operator's Guide. Use only attachments recommended by the manufacturer as contained in the Operator's Guide.
- To disconnect, turn all controls to the off ("0") position, then remove plug from outlet.
- Disconnect the power-line plug from the socket outlet or switch the machine off when making any adjustments in the needle area, such as threading needle, changing needle, changing needle plate or changing presser foot, etc.
- Always unplug the machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the Operator's Guide.
- Do not attempt to adjust the motor belt. Contact your nearest Service Center should any adjustment be required.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Handle the foot controller with care and avoid dropping it on the floor. Be sure not to place anything on top of it.
- Always use the proper needle plate. The wrong plate can cause the needle to break.
- Do not use bent needles.
- When sewing, keep fingers away from all moving parts. Special care is required around the sewing machine needle.

- Do not pull or push fabric while stitching. This may deflect the needle causing it to break.
- Before removing the bobbin case, remove plug from the socket outlet.
- For double insulated machines, when servicing, use only identical Singer replacement parts. See instructions for Servicing of Double-Insulated Appliances.
- Never operate the machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the machine to the nearest authorized dealer or Service Center for examination, repair, electrical, or mechanical adjustment.
- Never operate the machine with any air openings blocked. Keep ventilation openings of the machine and foot controller free from the accumulation of lint, dust, and loose cloth.
- Never drop or insert any object into any opening.
- Do not use outdoors.
- Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- Do not allow to be used as a toy. Close attention is necessary when the machine is used by or near children.
- SERVICING OF DOUBLE-INSULATED PRODUCTS. In a double-insulated product, two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated product, nor should a means for grounding be added to the product. Servicing of a double-insulated product requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to those parts in the product. A double-insulated product is marked with the words "DOUBLE-INSULATION" or "DOUBLE INSULATED".

SAVE THESE INSTRUCTIONS

Servicing should be performed by an authorized service representative.

This product is intended for household use. FOR EUROPEAN AND SIMILAR TERRITORIES:

This product is suppressed for radio and television interference with the International Electrotechnical Commission requirements of the CISPR.

Mchines for Great Britain and some other countries having similar wiring standards are shipped from the factory without a plug for connection to the mains. The wires in this mains lead are coloured in accordance with the following code:

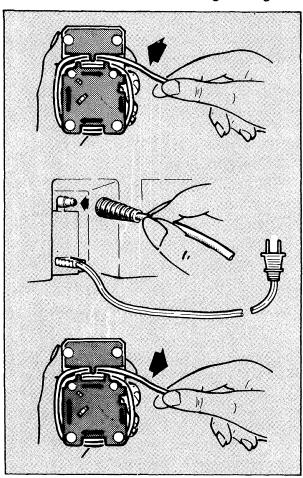
Blue: neutral (N) Brown: live (L)

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. If a 13 Amp. (BS 1363) plug is used, a 3 Amp. fuse must be fitted, or if any other type of plug is used, a 5 Amp. fuse must be fitted either in the plug or adaptor or at the distribution board. Neither cord is to be connected to the earth terminal of a three-pin plug.

CONNECTING THE MACHINE

The solid state system assures constant speed as you maintain the same pressure on the controller when sewing through various fabric thicknesses.



Unwind the air control hose from foot operated speed controller.

Always be sure air hose is not blocked. Pressing on the controller, you should feel a slight air flow from the hose.

Plug this air hose onto the receptacle above power cord, at the right end of the machine.

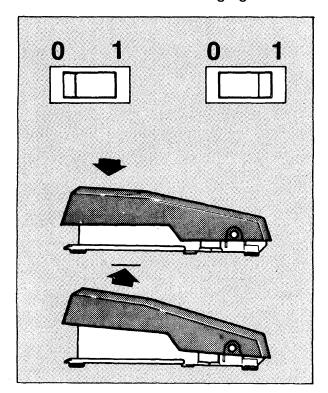
Then connect the electrical power cord plug to your electrical outlet.

NOTE: When not using the machine, rewind air hose around speed controller for storage, as shown.

Do not operate machine without material under the presser foot as this may damage the feed and the foot.

RUNNING THE MACHINE

The machine and the sewing light are turned on and off by the same power switch.



POWER SWITCH

To turn on machine and sewing light, press power switch down at right side. To turn off machine and light, press power switch down at left side.

To run the machine, press the speed controller. The harder you press, the faster the machine will sew.

To stop the machine from sewing, remove pressure from speed controller.

SECTION 2 Getting Ready to Sew

Fabric, Thread and Needle Table

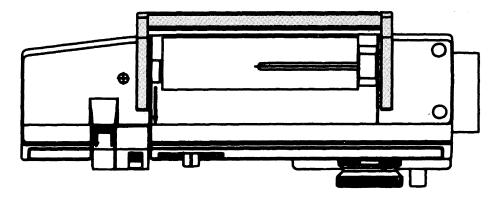
- The needle and thread used for a sewing project depends upon the fabric that is chosen.
- The table below is a practical guide to needle and thread selections for most situations.
- Refer to it before starting to sew. Be sure to use the same size and type of thread in both needle and bobbin. For best results, use only genuine Singer* needles.

	Thread	Needles	
Fabric		Туре	Size
Delicate - tulle chiffon, fine lace, organza	Fine mercerized cotton Fine synthetic thread	Style 2020	9/70
Lightweight - batiste, organdy, jersey, voile, taffeta, crepe, chiffon velvet, plastic film	50 mercerized cotton - silk Fine synthetic thread	Style 2020	11/80
Medium Weight - gingham, percale, pique, linen, chintz, faille, satin, fine corduroy, velvet, suitings, knits, deep-pile fabrics, vinyl	50 mercerized cotton - 60 cotton Synthetic thread	Style 2020	14/90
Medium Heavy - gabardine, tweed, sailcloth, denim, coatings, drapery, vinyl, deep-pile fabrics	Heavy-duty mercerized cotton 40 to 60 cotton - Synthetic thread	Style 2020	16/100
Heavy - overcoatings, dungaree, upholstery fabrics, canvas	Heavy-duty mercerized cotton 24 to 40 cotton - Synthetic thread	Style 2020	18/100
All Weights - decorative topstitching	Buttonhole twist**	Style 2020	16/100 18/100
Synthetic Knits and Stretch Fabrics - polyester doubleknit, nylon tricot, jersey, cire, panne velvet, bonded fabrics, raschel	Synthetic thread- 50 mercerized cotton - Silk	Style 2C45 Ball Point	14/90
Leather - suede, kidskin, lined leathers	50 mercerized cotton Synthetic thread - Silk	Style 2032	11/80 14/90 16/100

^{*} A Trademark of The Singer Company.

Handle Storage

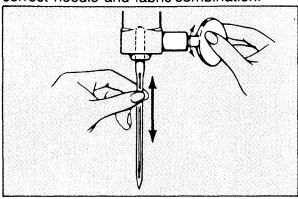
Push into recessed position before sewing or winding.



^{**} Use with standard sewing thread in bobbin.

CHOOSING AND CHANGING NEEDLES

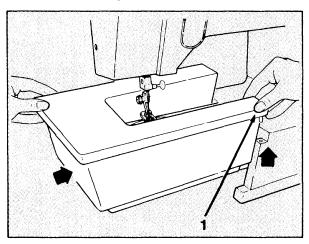
IMPORTANT: For best sewing results, use only Singer* needles. Check the needle package, and the Fabric, Thread and Needle Table on page 9, for the correct needle and fabric combination.



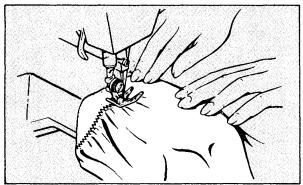
- Raise needle to its highest position.
- Loosen needle clamp screw and remove needle.
- With flat side of needle to the back, insert new needle up into clamp as far as it will go.
- Tighten needle clamp screw securely.

FREE ARM SEWING

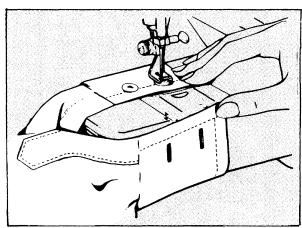
Free arm sewing makes it easier to sew hard-to-reach areas.



To change machine for free arm sewing, push in and lift right edge (1), of extension table, slide it to the left and off the machine.



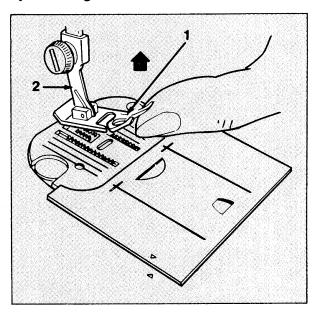
 Topstitch edges on sleeves, or finish waistbands and pants legs easily.



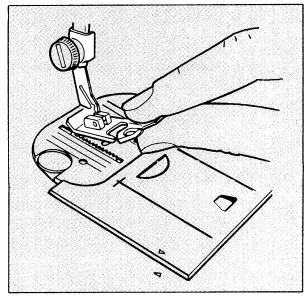
 Attach buttons without stretching cuffs and neckbands.

CHANGING THE PRESSER FOOT (B) (D) (E) (J) (L)

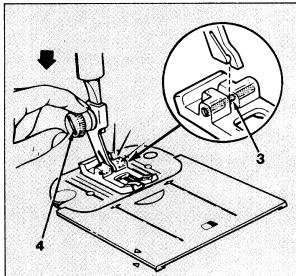
Your machine comes with the General Purpose Presser Foot (B) already attached. You can easily change to any one of the other presser feet which snap onto a common shank by following the directions below.



- Raise needle to its highest position by turning hand wheel toward you.
- Raise presser foot using presser foot lifter in back of machine.
- Push toe of presser foot (1) up, until it snaps off the shank (2).



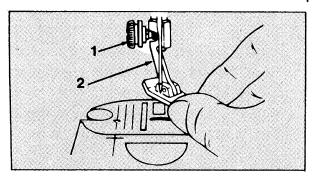
Take foot off machine.



- Place new foot under center of shank.
- Lower presser foot lifter, fitting shank over presser foot pin (3).
- Don't turn screw. Instead, push presser foot screw (4) down firmly until foot snaps into place.

REPLACING PRESSER FOOT WITH SHANK (H) (K)

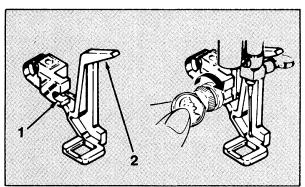
Presser feet with built-in shanks can be replaced as follows:



- Turn machine off.
- Raise needle and presser foot.
- Loosen presser foot screw (1) and remove presser foot with shank (2), guiding it toward you and to the right.
- To replace presser foot with shank, hook shank around the presser bar and tighten presser foot screw.

ATTACHING DARNING AND EMBROIDERY FOOT (G)

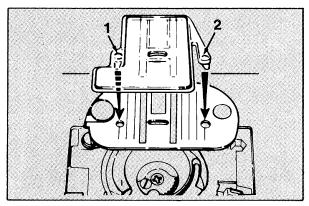
This foot permits better control of fabric when doing free motion work.



- Raise needle.
- Remove presser foot with shank.
- Guide Darning and Embroidery Foot from back of needle, with holding fork (1) around presser foot screw, and lifting finger (2) above needle clamp.
- Tighten presser foot screw with coin.
- To remove, loosen screw; guide foot back.

ATTACHING FEED COVER (F)

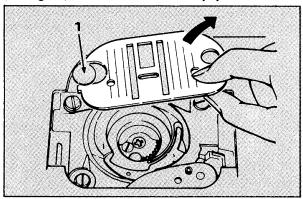
The feed cover keeps the feed from moving the fabric.



- Raise needle and presser foot.
- Open slide plate.
- Slide feed cover on top of needle plate, pressing tabs (1) and (2) into holes.
- Close slide plate.
- To remove, open slide plate and lift front edge of cover; pull it away.

CHANGING THE NEEDLE PLATE (A) (C)

Your machine comes with the General Purpose Needle Plate (A) attached. To attach the Straight Stitch Needle Plate (C):



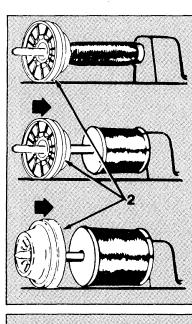
- · Raise needle and presser foot.
- Open slide plate.
- Lift up needle plate from right corner and slide out from under foot.
- To replace needle plate, slide it under pin (1) and push it firmly to the left.
- Press down until it snaps into place.

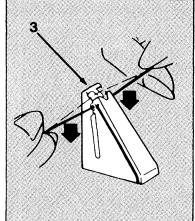
THREADING THE MACHINE

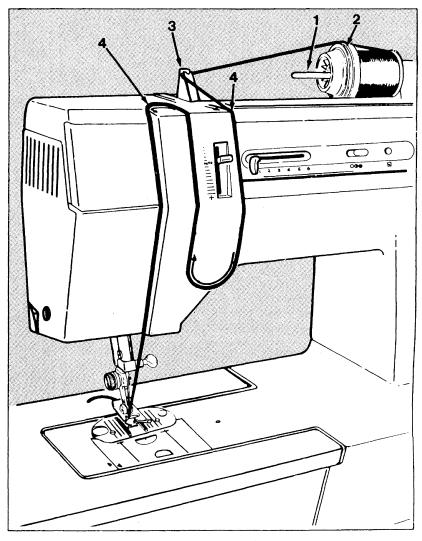
Your sewing machine is easily threaded. Tension discs, thread guides and take-up lever have been designed as internal parts, eliminating many extra threading steps. The clear threading path helps you avoid threading errors.

To thread your machine correctly, simply follow the steps below:

- Raise presser foot lifter.
- Raise needle to its highest position by turning hand wheel toward you.
- Place spool of thread on spool pin (1).
- Slide spool cap (2) firmly over the rim of the spool to prevent thread tangling.
- Snap thread into thread guide post (3).
- Following arrows, guide thread into auto tension channel (4) down to needle and firmly pull thread.
- Thread needle from front to back.

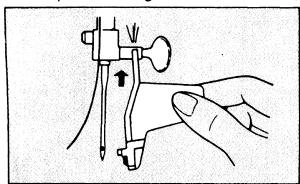


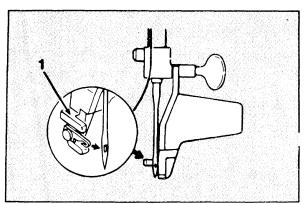


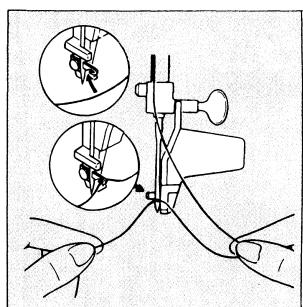


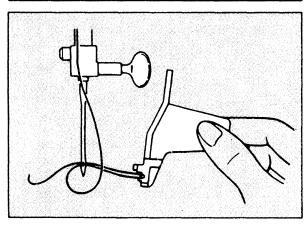
USING THE NEEDLE THREADER (P)

To help in threading the machine needle, use the needle threader as follows:







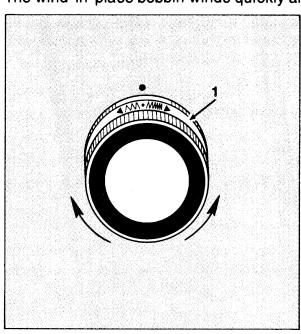


- Thread machine and draw 4" (10 cm) of thread down to the needle.
- Lower presser foot lifter.
- Holding needle threader as shown with your right hand, position U-shaped part of threader under bar of needle clamp.
- Snap threader up onto bar.
- Swing threader back just far enough to clear the needle.
- Slide threader as far to the left as it will go.
- Be sure guide (1) is against the left side of the needle.
- Bring metal hook of threader forward, through the eye of the needle.
- Holding 3" (7.5 cm) of thread between your fingers, guide thread into metal hook. Release thread.

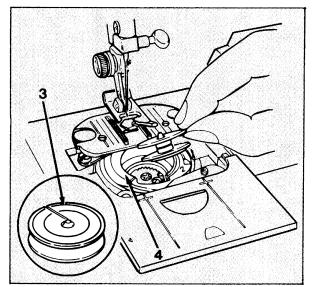
- Holding threader with right hand, draw metal hook and thread backwards through eye of the needle.
- To remove needle threader, slide it to the right, and off bar of needle clamp.
- Carefully unhook thread from needle threader.

WINDING A BOBBIN

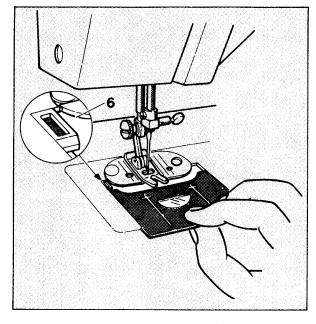
The wind-in-place bobbin winds quickly and easily while it's in the machine.



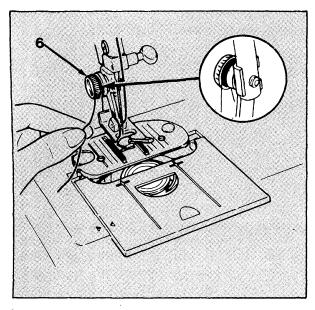
- Raise needle to highest position by turning hand wheel toward you.
- Raise presser foot.
- Open slide plate.
- Turn pattern selector dial (1) to select Straight Stitch/Bobbin Winding, (Details on "Selecting a Pattern" are on page 19.)



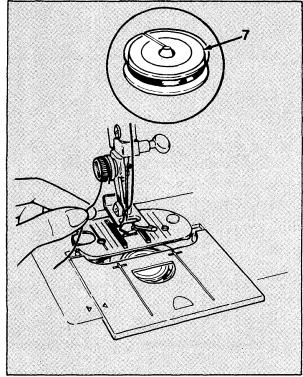
Put an empty bobbin, with black rings
(3) facing up, into bobbin case (4).



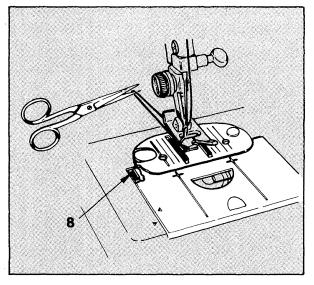
 Close slide plate until it stops against button (6). This will automatically engage bobbin winder.



 Bring thread from needle, under presser foot and wind it one turn in any direction, around presser foot screw (6) pulling it into groove as shown.



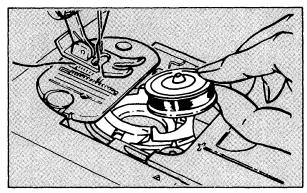
- Begin running machine at a moderate speed.
- The window in the slide plate lets you watch the bobbin winding.
- When desired amount of thread has been wound, stop machine. DO NOT ALLOW THREAD TO WIND BEYOND THE OUTSIDE "FULL" RING (7).
- Remove thread from presser foot screw.

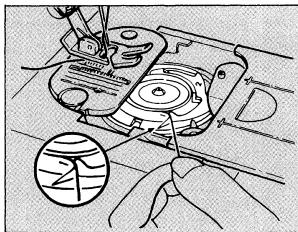


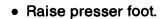
- Push button (8) down with your finger while closing slide plate.
- Raise needle to its highest position.
- Pull 4" (10cm) of thread under foot toward back of machine, and cut.
- To begin sewing, position needle in fabric where desired, lower presser foot and start machine.

INSERTING A WOUND BOBBIN

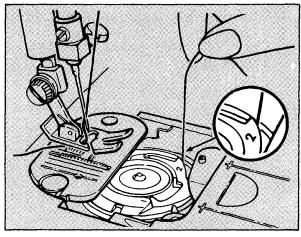
When you want to sew with a bobbin that is already wound, insert it following the instructions below.



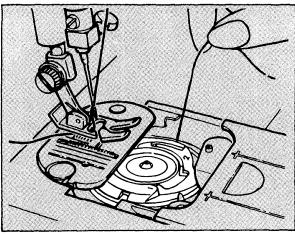




- Turn hand wheel toward you until needle is in its highest position.
- Open slide plate completely, and remove bobbin.
- 1. Pull 4" (10cm) of thread from replacement bobbin and insert bobbin, with rings facing up, into case.
- 2. Holding bobbin in place, guide thread into notch (1).



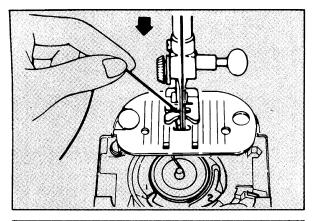
3. Bring thread around and past point #2.



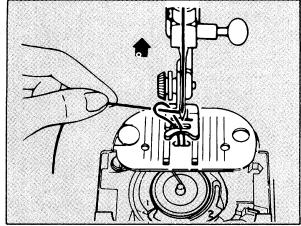
- 4. Holding bobbin thread on outside, leave slide plate open.
- Follow directions for "Raising Bobbin Thread", on page 18.

RAISING THE BOBBIN THREAD

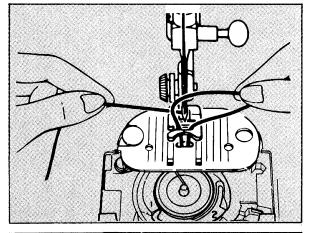
Once the needle has been threaded and the bobbin placed in the bobbin case, the bobbin thread must be brought up through the hole in the needle plate.



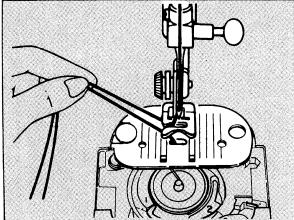
- Be sure slide plate is fully open.
- 1. Hold needle thread with left hand.
- Turn hand wheel slowly toward you, lowering needle into hole in plate.



- 2. Continue to do this until needle rises above needle plate.
- Pull gently on needle thread and bring up bobbin thread in a loop.



3. Open loop with fingers to find end of bobbin thread.



- 4. Draw needle thread through left side opening in presser foot.
- Pull both threads to back of machine.
- Completely close slide plate once bobbin thread has been brought up.

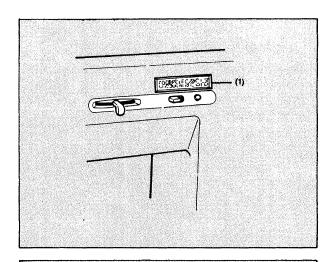
LCD PATTERN SELECTION

Your sewing machine has a unique pattern display which clearly indicates your selected pattern.



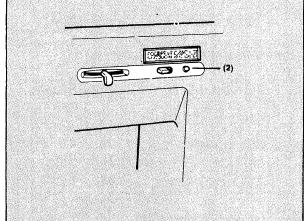
LCD Window

As you turn the pattern selector dial, the pattern you selected, will comes out in liquid crystal display (LCD) window (1).



What's The Message in The Window

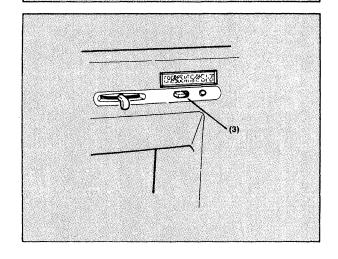
- First, # is pattern sequence number. You can select any pattern from 0 through 24.
- Second. --- is stitch width setting.
- Third, IIII is stitch length setting.
- Forth, is presser foot required.



Getting More Information

If you want more information, you can push the button (2) once or twice.

The details about stitch will scroll on the window.



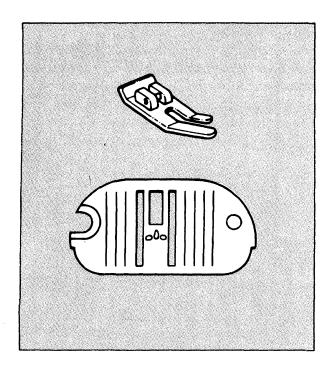
Screen Contrast

(If your machine has this button).

You can adjust the screen contrast, by moving the contrast control lever (3).

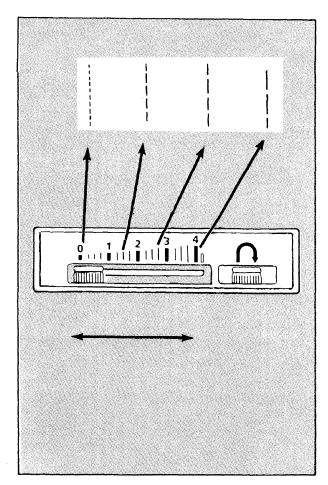
SECTION 3 STRAIGHT STITCHING

The Straight Stitch Needle Plate (C) and Presser Foot (D) help prevent skipped stitches and control fabric when straight stitching around a curve or close to the fabric edge.



CAUTION: Straight Stitch Needle Plate and Presser Foot should be used for straight stitch sewing only.

Always change back to the appropriate needle plate and presser foot when not straight stitching.



RECOMMENDED SETTINGS

Stitch Selection:

Straight Stitch

Stitch Width:

Stitch Length:

1 1/2 to 4

Foot:

Straight Stitch (D)

Needle Plate:

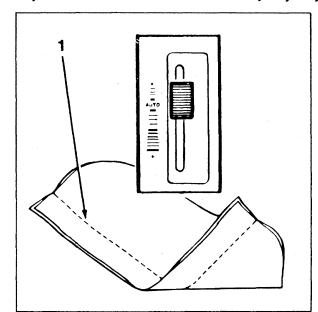
Straight Stitch (C)

ADJUSTING STITCH LENGTH

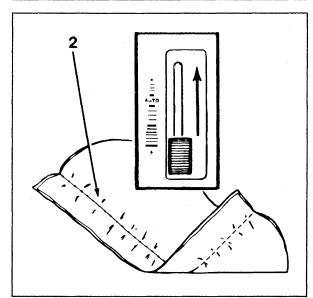
The stitch length indicator is numbered **0** - **4.** The lower numbers are shorter stitches. Shorter stitches are best for light-weight fabrics; longer ones for heavy fabrics. To adjust the length of your stitches, slide the stitch length lever to the left or right.

ADJUSTING THREAD TENSION

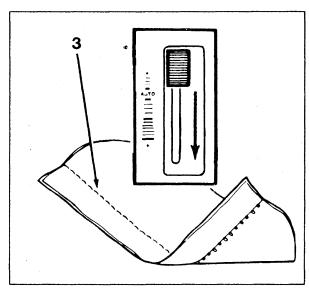
The thread tension of your sewing machine has been pre-set in the auto position to suit most sewing applications. This auto tension feature eliminates the need for you to adjust the tension lever for the majority of your sewing projects.



Proper tension will produce identical stitches on both the front and back of your fabric (1).



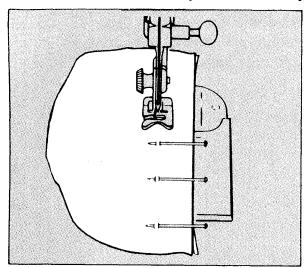
Too much tension will produce a tight stitch, causing a puckered seam (2). Adjust tension by moving lever up toward a looser "—" setting.

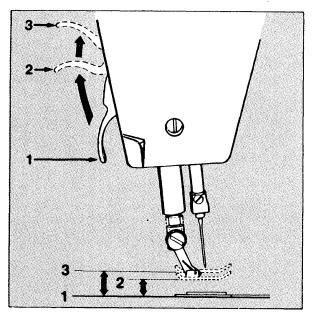


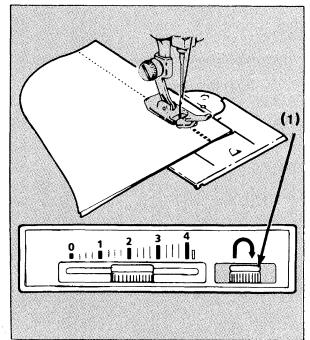
Too little tension will produce a loose stitch, causing loops in your seams (3). Adjust tension by moving lever down toward a tighter "+" setting.

SEWING A SEAM

You can sew seams easily and accurately when you follow the suggestions below.







BASTING

Pin basting and hand basting are easy ways to make temporary seams before machine sewing.

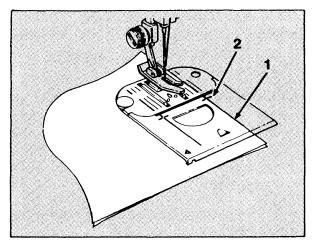
- To pin baste, insert pins at stitching line. NEVER place pins on the underside of fabric in contact with the feed.
 Do not sew over pins; pull them out as you stitch.
- To hand baste, make long, loose stitches that can be easily removed.

PLACING FABRIC UNDER PRESSER FOOT

- To place fabric under presser foot, raise presser foot lifter (1) to its "up" position (2), where it locks in place.
- The lifter can be raised and held in the "extra high" position (3) for bulky fabrics.

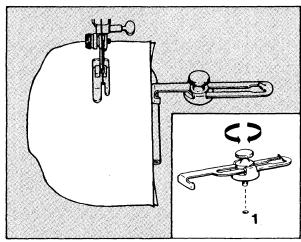
STITCHING IN REVERSE

- To reinforce beginnings or ends of seams, push in reverse lever (1). Machine will straight stitch in reverse for as long as you hold the lever in.
- For continuous reverse stitching, push lever in and slide it to the left to lock. Unlock reverse lever by sliding it back to the right and letting it return to its normal position.



KEEPING SEAMS STRAIGHT

To keep seams straight, use one of the guidelines on the needle plate. The most commonly used line (1) is extended onto the slide plate. The crosslines (2) serve as guides when stitching square corners.

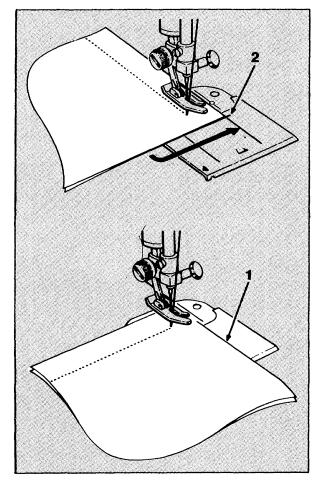


USING THE SEAM GUIDE (N)

For extra help in keeping seams straight, particularly for very narrow or very wide seams, use the seam guide which comes with your machine.

To attach the seam guide, place screw of seam guide into the hole in the bed of the machine, on the right side of slide plate (1).

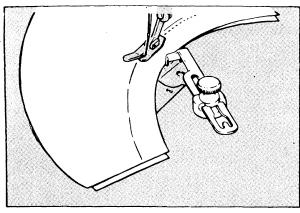
Line up the straight edge of the guide with the needle plate guideline for desired seam width and tighten screw.

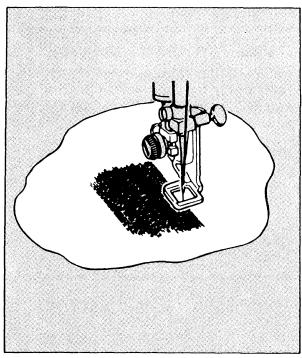


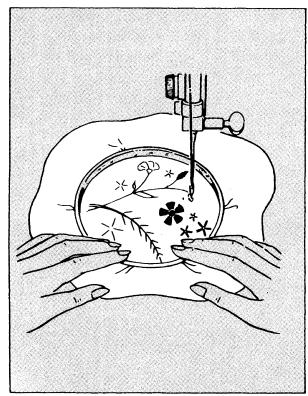
TURNING SQUARE CORNERS

To turn a square corner, use crosslines on slide plate.

- Line up fabric with extended guidelines on needle plate and stitch seam, slowing speed as you approach corner.
- When bottom edge of fabric reaches cornering crosslines (2) on slide plate, stop stitching.
- Be sure needle is down in fabric.
- Raise presser foot slightly. Turn fabric, bringing bottom edge in line with guideline (1).
- Continue stitching seam.







SEWING CURVED SEAMS

- Baste seam line.
- Use a short stitch for elasticity and strength.
- Guide fabric to follow curve.
- The seam guide may also be used when sewing curved seams. Attach seam guide at an angle so that the edge closer to the needle acts as a guide.

DARNING

Mend worn or torn areas using the Darning and Embroidery Foot.

 Trim ragged edges and baste a backing on wrong side of tear.

RECOMMENDED SETTINGS

Stitch Selection:

Straight Stitch

Stitch Width:

---···

Stitch Length:

0

Foot: Darning

Darning and Embroidery (G)

Needle Plate:

General Purpose (A)

- Attach Feed Cover (F).
- Place area to be darned, right side up, under presser foot; lower foot.
- Stitch, guiding fabric back and forth, until entire area is filled in.

FREE MOTION EMBROIDERY

In free motion embroidery, you sew without a presser foot, and control the fabric with an embroidery hoop.

RECOMMENDED SETTINGS

Stitch Selection:

Straight Stitch or

Zig-Zag

Stitch Width:

Stitch Length:

0

Foot:

Remove foot with shank General Purpose (A)

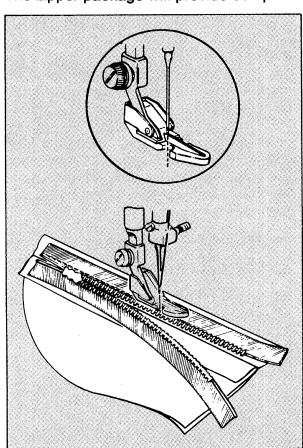
• Attach Feed Cover (F).

- Be sure to lower presser foot lifter.
- When embroidering, as shown, use straight stitches for stems, and zig-zag stitches, at varying widths, for leaves and petals. Lengthen stitches by moving the hoop faster or slower.

NOTE: The Darning and Embroidery Foot **(G)** may be used to help control fabric.

INSERTING A ZIPPER

The zipper package will provide complete instructions for inserting zippers.



RECOMMENDED SETTINGS

Stitch Selection:

Straight Stitch

Stitch Width:

Stitch Length:

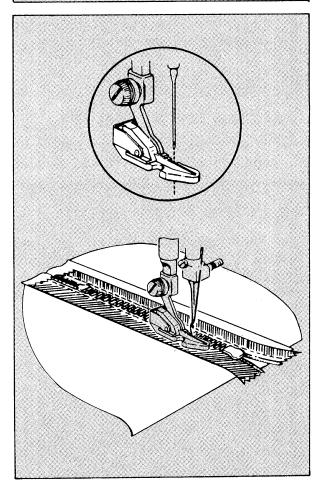
Foot:

1-1/2 to 4 Zipper (E)

Needle Plate:

General Purpose (A)

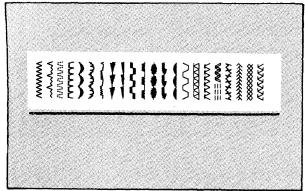
 When zipper is to the left of needle, attach left side of zipper foot to shank.
 The needle will enter left notch of foot, sewing close along zipper teeth.



 Attach right side of zipper foot to shank when a zipper is to the right side of the needle. The needle will enter right notch of foot, sewing close along zipper teeth.

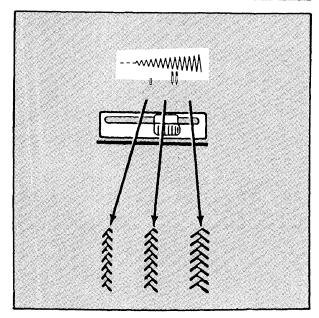
SECTION 4 SPECIAL STITCHES

The Special Stitches on your machine have a variety of practical and decorative uses. In this section are recommended applications for each stitch. However, these stitches can be used for many other sewing projects.



Before beginning a sewing project, check the Fabric, Thread and Needle Table on page 9 for the best needle and thread combination for your fabric.

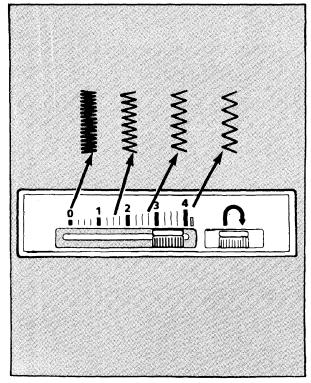
With each application, recommended settings have been given. These have been highlighted for easy identification. You can adjust each setting, however, as desired.



ADJUSTING STITCH WIDTH

To widen or narrow a Special Stitch pattern, move the stitch width lever off Straight Stitch, , toward any other width setting at the right.

NOTE: The double patterns on your stitch width indicator are for twin needle sewing. Attachments for this special feature are available from your sewing center.

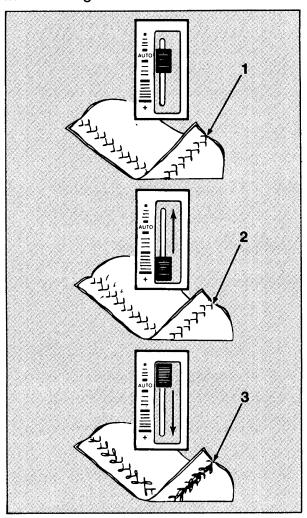


ADJUSTING STITCH LENGTH

The stitch length indicator is numbered 0 to 4. The area between 0 and 1 will produce very dense stitching. For more open stitching, slide the stitch length lever anywhere from 2 to 4. When sewing special color coded stitches. The length MUST be set in the 3-1/2 to 4 area.

ADJUSTING THREAD TENSION

Some Special Stitch patterns may require looser thread tension than others. To find the proper tension for your application, make a test sample with the thread and fabric you will be using.



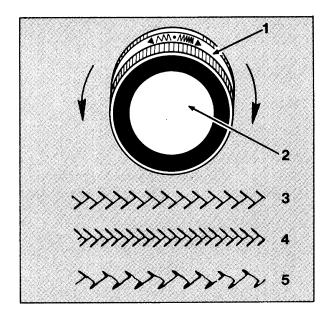
Proper tension produces a smooth, even stitch (1).

Too much tension will produce a tight stitch (2), causing fabric to pucker. Adjust tension by moving lever up toward a looser "-" setting.

Too little tension will produce a loose stitch (3), causing loops in your pattern. Adjust tension by moving lever down toward a tighter "+" setting.

ADJUSTING STITCH BALANCE

You can adjust the appearance of special color coded stitch patterns on the display panel, by turning the Stitch balance ring (1) behind the pattern selector dial (2).



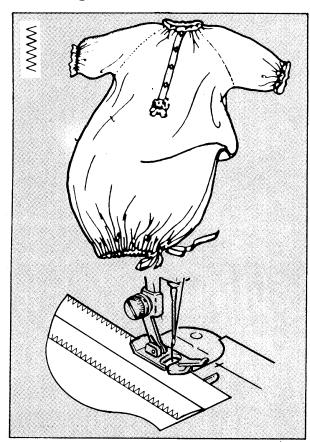
A correctly balanced Fagoting Stitch should appear as illustrated (3).

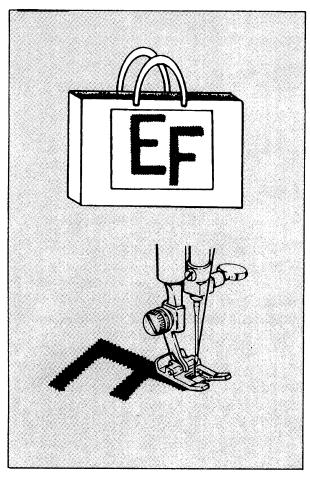
When stitches are too close together (4), separate them by turning the stitch balance ring to the right.

When stitches are too far apart (5), bring them closer together by turning the stitch balance ring to the left.

ZIG-ZAG STITCH

The Zig-Zag Stitch can be used when sewing seams, appliquéing, monogramming or decorating.





SEAM FINISHING

Use a zig-zag stitch to finish seam edges of fabrics that are likely to unravel.

Sew seams as desired; trim and press open.

RECOMMENDED SETTINGS

Stitch Selection: Zig-Zag Stitch

Stitch Width:

Stitch Length: 1 to 4

Foot: General Purpose (B)
Needle Plate: General Purpose (A)

- Place edge of seam allowance under foot, as shown.
- Stitch close to edge, letting outer zigzag fall **over** edge.

SATIN STITCHING

Satin stitching is a series of closely spaced zig-zag stitches. Satin stitch monograms, embroidery and appliqués for a smooth, satin-like finish.

Practice to get desired stitch appearance.

Block Monogramming

 Lightly trace letters on right side of fabric.

RECOMMENDED SETTINGS

Stitch Selection: Zig-Zag Stitch

Stitch Width:

Stitch Length: 1 or lower

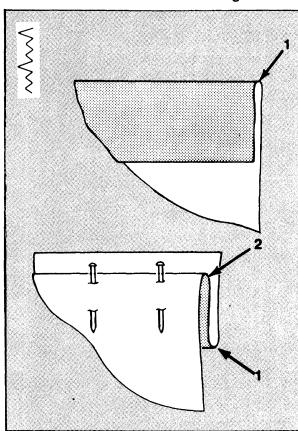
Foot: Special Purpose (J)

Needle Plate: General Purpose (A)

- Center tracing under needle.
- Stitch entire outline, leaving needle in fabric when turning.
- Pull threads to wrong side of fabric; tie and trim.

ZIG-ZAG BLINDSTITCH

Use this Blindstitch when sewing hems and seams, or attaching lace and elastic.



BLINDSTITCH HEMMING

 Practice first on a scrap of material, carefully following each step.

RECOMMENDED SETTINGS

Stitch Selection:

Zig-Zag Blindstitch

Stitch Width:

----WWWWW

Stitch Length:

2 to 4

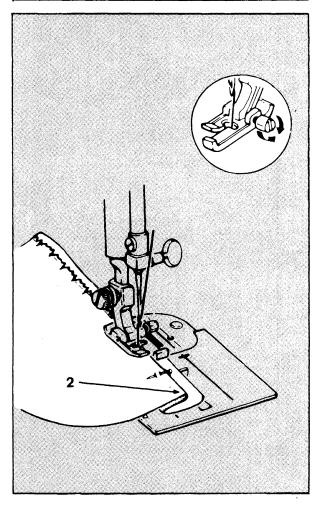
Foot:

Adjustable Blindstitch (K)

Needle Plate:

General Purpose (A)

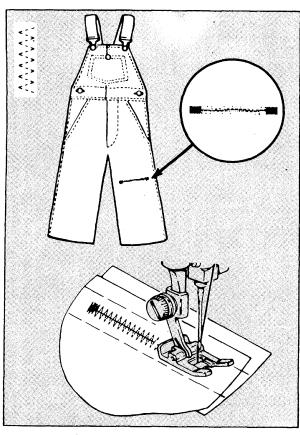
- With garment inside out, mark, fold and press hemline (1).
- Turn hem (1) back against inside of garment, leaving ½ of hem beyond fold (2), as shown.
- Pin or baste all layers in place.



- Raise presser foot.
- Place folded edge (2) directly under presser foot.
- Be sure bulk of garment is to the left of needle.
- Lower presser foot.
- Begin sewing slowly, making sure the wide zig-zag stitch enters only the very edge of the fold area (2). The narrow zig-zag should fall in the hem area. If this is not happening, adjust the position of the foot.
- Remove pins as you come to them.

MULTI-STITCH ZIG-ZAG

Mending, overcasting, joining or reinforcing can all be done using the Multi-Stitch Zig-Zag.



MENDING A TEAR

- Trim ragged edges of tear.
- Cut a lining of fabric for reinforcement.
- Bring the edges of tear together and baste lining to wrong side of fabric.

RECOMMENDED SETTINGS

Stitch Selection:

Multi-Stitch

Zig-Zag

Stitch Width:

Stitch Length:

1 or lower

Foot:

Special Purpose (J)

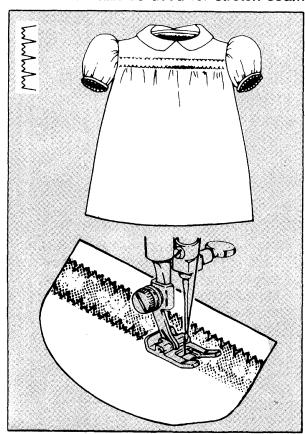
Needle Plate:

General Purpose (A)

- Place tear, right side up, under presser foot.
- Stitch over the line of the tear, shortening stitch length at each end for reinforcement.
- Trim thread ends close to fabric.
- If needed, sew over tear again.
- Trim away lining close to stitching.

"M" STITCH

This stitch can be used for stretch seams and decorative stitching



LACE TRIM

Lace trim may be added to blouses, lingerie and children's wear.

- Cut lace to desired size.
- Pin lace to right side of fabric where desired.

RECOMMENDED SETTINGS

Stitch Selection:

"M" Stitch

Stitch Width:

Stitch Length:

2 or lower

Foot:

Special Purpose (J)

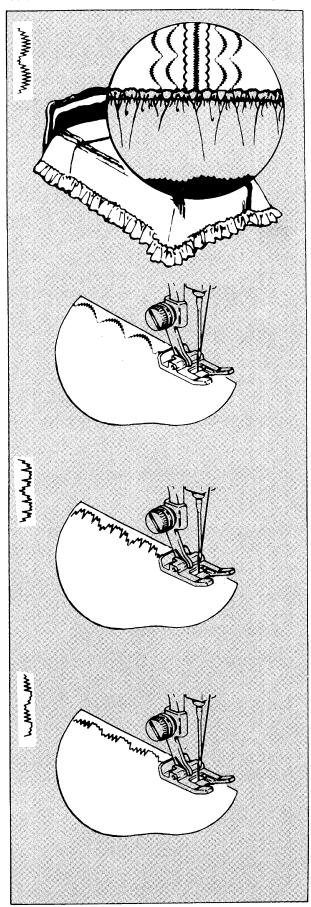
Needle Plate:

General Purpose (A)

- Carefully stitch along both edges of lace, as shown.
- Trim away the fabric under the lace near stitching lines.

CRESCENT STITCH/CHINESE DYNASTY STITCH/KITE TAIL STITCH

These stitches are ideal for borders, edges, smocking and embroidering



BORDER DESIGN

Border designs decorate clothing and many household items.

- Sew Seams in usual manner and press.
- Mark stitching lines of fabric where desired.

RECOMMENDED SETTINGS

Stitch Selection: Crescent Stitch

Stitch Width:

Stitch Length: 1 or lower

Foot: Special Purpose (J)
Needle Plate: General Purpose (A)

RECOMMENDED SETTINGS

Chinese Dynasty

Stitch Selection: Stitch

Stitch Length: 1 or lower

Stitch Width:

Foot: Special Purpose (J)
Needle Plate: General Purpose (A)

RECOMMENDED SETTINGS

Stitch Selection: Kite Tail Stitch

Stitch Width:

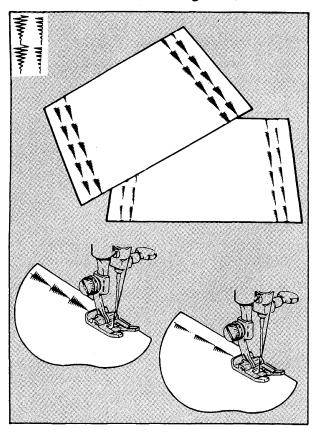
Stitch Length: 1 or lower

Foot: Special Purpose (J)
Needle Plate: General Purpose (A)

- Center marked line under presser foot and stitch.
- Pull threads to wrong side of fabric; tie and trim.

ARROW STITCH/BUNTING STITCH

These stitches are decorative and secure finish to seams, pleats and pockets it can also be used as a border design.



BORDER DESIGN

- Sew seams in usual manner and press.
- Mark stitching lines on fabric where desired.

RECOMMENDED SETTINGS

Arrow Stitch

Stitch Selection: Bunting Stitch

Stitch Width:

Stitch Length:

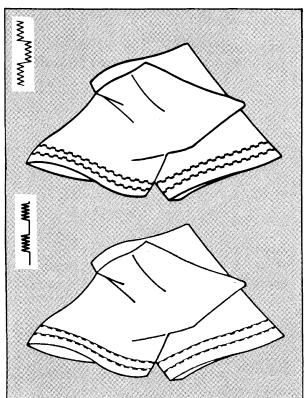
1 or lower

Foot: Needle Plate: Special Purpose (J) General Purpose (A)

- Center stitching line under presser foot and sew.
- Trim thread ends close to fabric.

DECORATIVE STITCHES

Your machine can sew several stitches which are solely decorative. These stitches let you create unique, personalized garments and household items.



 Use the DOMINO STITCH/FLAG STITCH to form a lively border along the edges of a pair of pillow cases.

RECOMMENDED SETTINGS

Stitch Selection:

Domino Stitch

Flag Stitch

Stitch Width:

---****

Stitch Length:

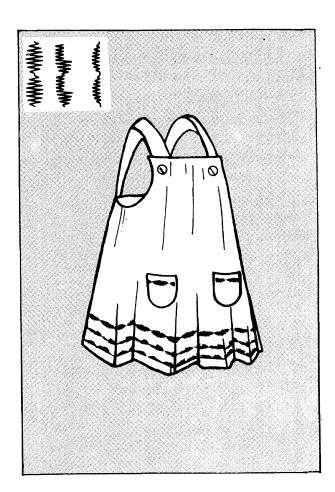
1 or lower

Foot:

Special Purpose (J)

Needle Plate:

General Purpose (A)



 Brighten up a plain dress with the SATIN BEAD STITCH/BOOMERANG STITCH/ LADY BUG STITCH

RECOMMENDED SETTINGS

Stitch Selection:

Satin Bead Stitch

Boomerang Stitch

Lady Bug Stitch

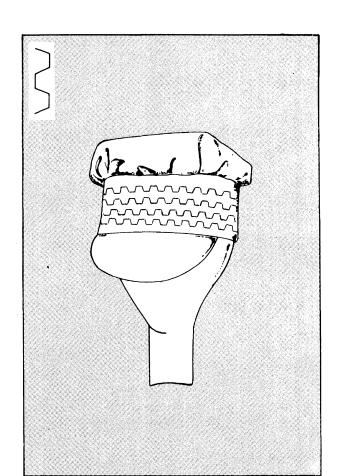
Stitch Width:

---****

Stitch Length:

1 or lower

Foot: Needle Plate: Special Purpose (J) General Purpose (A)



• The RAMPART STITCH can be used to decorate a boy's cap.

RECOMMENDED SETTINGS

Stitch Selection:

Rampart Stitch

Stitch Width:

---**~~~~**

Stitch Length:

1 or lower

Foot:

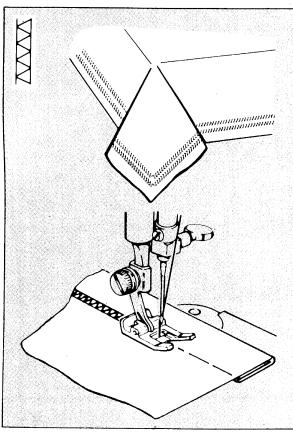
Special Purpose (J)

Needle Plate:

General Purpose (A)

TURKISH STITCH

The Turkish Stitch can be used for appliqueing, joining patchwork or forming decorative hems on bed and table linens.



HEMSTITCHING

- Fold a double hem of desired width and baste.
- Mark a guideline for hemstitching on right side of fabric just above top of hem edge.

RECOMMENDED SETTINGS

Stitch Selection: Turkish Stitch
Stitch Width:

Stitch Width:

Stitch Length: 3-1/2 to 4

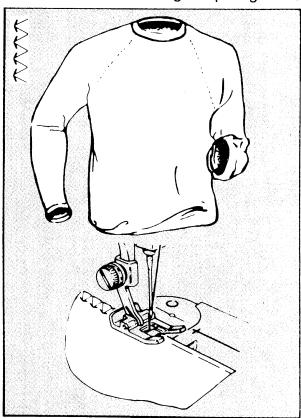
Foot: Special Purpose (J)
Needle Plate: General Purpose (A)

Adjust balance, if necessary

- Place work, right side up with hem facing right, under presser foot.
- Lower presser foot and stitch along guideline.
- Be sure stitches on left side of line fall over hem edge (into single thickness of fabric) and stitches on right side fall into double fold of hem.

STRETCH OVEREDGE STITCH

With this stitch you can stitch and finish a seam in one step. It is also ideal for finishing seams, hems and facings requiring stretch.



OVEREDGE SEAM

- · Baste seams.
- Trim seam edge 1/4" (6mm) from basting line.

RECOMMENDED SETTINGS

Stitch Selection: Stretch Overedge

Stitch

Stitch Width:

Stitch Length: 3-1/2 to 4

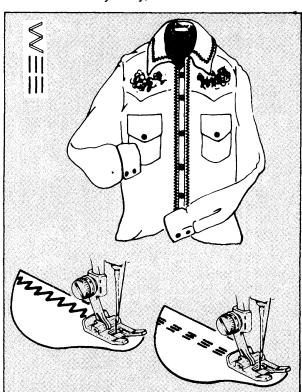
Foot: Special Purpose (J)
Needle Plate: General Purpose (A)

Adjust balance, if necessary

- Position trimmed seam under presser foot, as shown.
- Stitch along basting line.
- Straight stitches should fall on basting line; zig-zag stitches should fall over seam edge.
- Remove basting stitches and press.

RIC-RAC/STRAIGHT STRETCH STITCH

This is a heavy-duty, stretch stitch that can also be used for topstitching.



TOPSTITCHING

- Sew seams in usual manner and press.
- For topstitching hard-to-reach areas, convert machine to free arm sewing.

RECOMMENDED SETTINGS

Stitch Selection:

Ric-Rac/Straight

Stretch Stitch

Stitch Width:

--~~~

Stitch Length:

3-1/2 to 4

Foot:

Special Purpose (J)

Needle Plate:

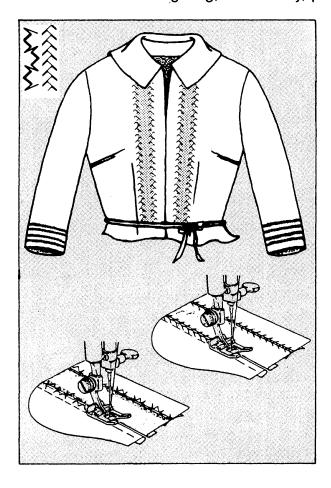
General Purpose (A)

Adjust balance, if necessary

- Place garment right side up, under foot.
- Slowly topstitch desired areas.
- Pull threads to wrong side of fabric; tie and trim.
- To create a straight stretch stitch, set stitch width to the left and stitch length to #4.

CROWN STITCH/FAGOTING STITCH

Use these stitches fagoting, embroidery, patchwork or strengthening seams.



FAGOTING

This is an open, lacy stitch used to join two pieces of fabric.

- Fold under edges to be joined and press.
- Baste the edges 1/8" (3mm) apart onto a sheet of tissue paper for support.
- Position center of work under center of presser foot.

RECOMMENDED SETTINGS

Stitch Selection:

Crown Stitch

Fagoting Stitch

Stitch Width:

---**~~~~**!!

Stitch Length:

3-1/2 to 4

Foot:

Special Purpose (J)

Needle Plate:

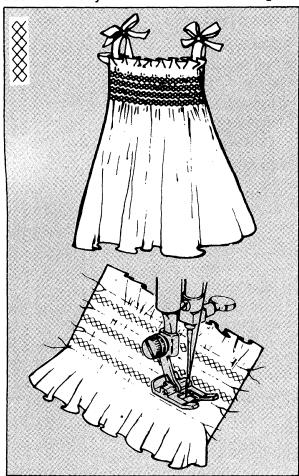
General Purpose (A)

Adjust balance, if necessary

- As you sew, the needle should make a stitch first in one fabric strip, and then in the other.
- After stitching is completed, remove tissue and basting.

HONEYCOMB STITCH

Use the Honeycomb Stitch for smocking, mending and sewing stretch fabrics.



SMOCKING

Smocking is decorative stitching across evenly spaced gathers of fabric.

To Gather Fabric:

RECOMMENDED SETTINGS

Stitch Selection:

Straight Stitch

Stitch Width:

--**~~~**

Stitch Length:

Foot:

Special Purpose (J)

Needle Plate:

General Purpose (A)

- Sew rows of straight stitches, 1/4" apart, across area to be smocked.
- Pull thread evenly, gathering fabric.
- Tie ends of every two rows of stitching together to hold gathers in place.
- Baste a backing to wrong side of fabric.

To Smock Fabric:

RECOMMENDED SETTINGS

Stitch Selection: Honeycomb Stitch

Stitch Width:

---**~~~**

Stitch Length:

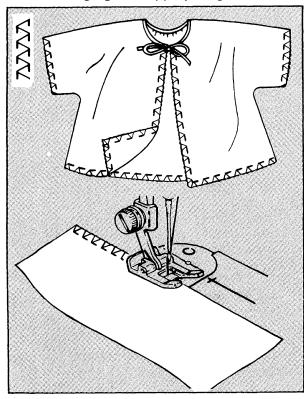
3-1/2 to 4

Adjust balance, if necessary

- Sew between rows of straight stitches.
- Pull out straight stitches when completed.

STRAIGHT FEATHERSTITCH

With the Straight Featherstitch you can stitch and finish a seam in one step. It is also ideal for edging and appliqueing.



EDGING

Add a delicate touch to your sewing while finishing and reinforcing your edges.

• Sew seams in usual manner and press.

RECOMMENDED SETTINGS

Stitch Selection:

Straight

Featherstitch

Stitch Width:

Stitch Length:

3-1/2 to 4

Foot:

Special Purpose (J)

Needle Plate:

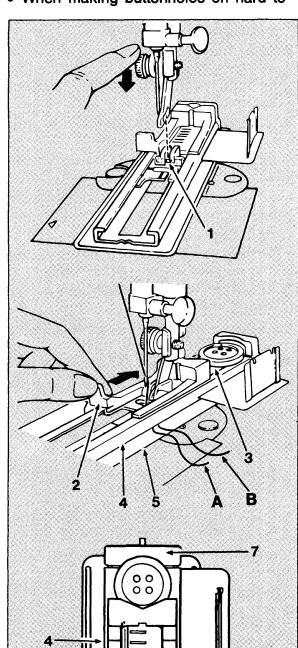
General Purpose (A)

Adjust balance, if necessary

- Place edge of garment, right side up, under presser foot.
- Bulk of garment should be to the left.
- As you stitch, needle should go over right edge of fabric, as shown.

SECTION 5 ONE-STEP BUTTONHOLING

- Your machine automatically makes a buttonhole to the size of your button in one, easy step. You never need to move the fabric or reposition the needle.
- Always make a practice buttonhole on a sample of your fabric.
- Be sure bobbin contains enough thread.
- When making buttonholes on hard-to-



- reach areas, convert machine bed to free arm sewing.
- Mark buttonhole position on fabric as indicated in pattern.

RECOMMENDED SETTINGS

Stitch Selection: Buttonhole Stitch

Stitch Width:

Stitch Length: 4

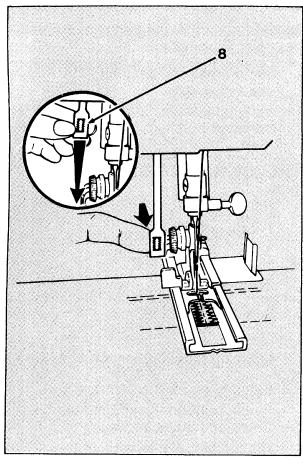
Foot: Buttonhole Attachment (L)
Needle Plate: General Purpose (A)

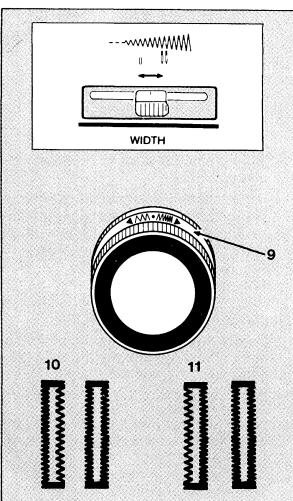
Fastening the Buttonhole Attachment

- Remove presser foot from shank.
- Place buttonhole attachment behind shank and guide it forward.
- Center pin (1) in attachment under shank, and lower presser foot lifter.
- Press presser foot screw down firmly until shank snaps into place.

Setting the Length of Buttonhole

- Open button clamp (2) and place button on carrier (3).
- Slide clamp (2) back to hold button in place.
- Raise foot lifter and draw needle thread
 (A) and bobbin thread (B) between upper
 (4) and lower (5) plates of button attachment, and to the back of machine.
- Place fabric between upper and lower plates.
- Center 3 red guidelines (6) of attachment around beginning line of buttonhole.
- Lower presser foot lifter.
- Push foot from back of button carrier (7), toward you to insure proper buttonhole length.





- Pull buttonhole lever (8), located under sewing light, straight down as far as it will go.
- Press it toward you.
- Start running the machine.
- The entire buttonhole will be stitched in one operation.
- Stop sewing when machine begins overlapping starting stitches.
- Raise foot lifter and remove work from machine; clip thread ends; cut buttonhole opening with scissors or seam ripper.
- (Adjust width and balance of test buttonhole, if necessary.)
- Press buttonhole lever toward you for each buttonhole to be sewn.
- When all buttonholes are completed, push buttonhole lever (8) back up into machine.
- To remove buttonhole attachment, raise presser foot lifter and press down on both sides of button carrier near shank, and slide off machine.

ADJUSTING WIDTH OF BUTTONHOLE OPENING

If the width of the buttonhole opening is too narrow or too wide, it can be adjusted by the stitch width lever.

- Widen the buttonhole opening by moving the stitch width lever slightly left.
- Narrow the buttonhole opening by moving the stitch width lever slightly right.

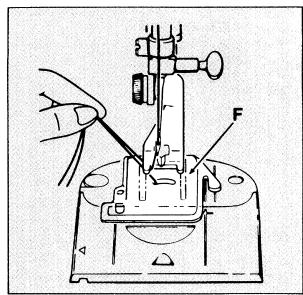
ADJUSTING BALANCE OF BUTTONHOLE

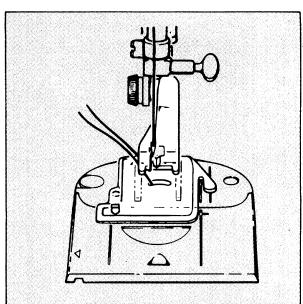
If the two stitching sides of your buttonhole are unequal, turn stitch balance ring (9) behind pattern selector dial.

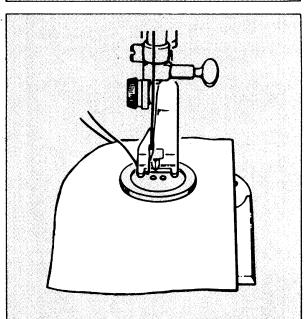
- If the right side of stitching is too open (10), turn stitch balance ring slightly left.
- If the left side of stitching is too open (11), turn stitch balance ring slightly right.

ATTACHING A BUTTON

Flat buttons can be sewn on quickly and easily using the plain zig-zag stitch







RECOMMENDED SETTINGS

Stitch Selection: Zig-Zag Stitch

Stitch Width: ----

Stitch Length:

0

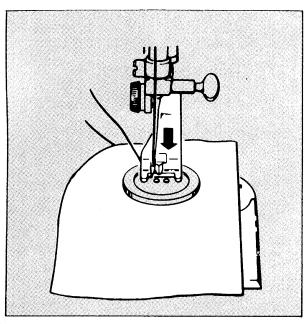
Foot:

Button Sewing (H)

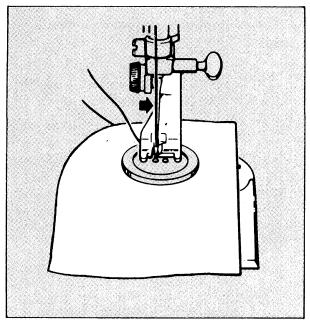
Needle Plate: General Purpose (A)

Attach Feed Cover (F)

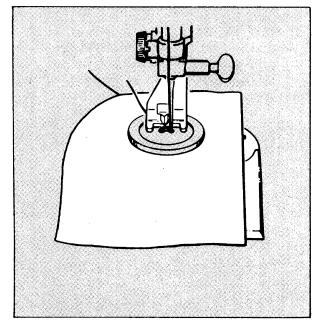
- The space between the holes in the button determines stitch width setting.
- Before you can attach a button, the bobbin thread must be brought up through the hole in the feed cover (F).
- Raise foot lifter.
- Position both threads under button foot toward rear of machine.
- Hold needle thread while lowering needle into hole in feed cover. Raise needle and gently pull needle thread, undo loop of bobbin thread that comes up with the needle. Details on "Raising the Bobbin Thread" are on page 17.
- 1. Place garment under button foot.
- Position button on garment making sure the holes in the button are between the toes of the button foot.
- Lower foot lifter.



2. Turn hand wheel toward you, lowering needle into either hole of button.



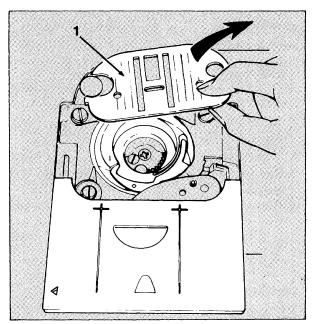
 Continue turning hand wheel until needle rises and moves over the other hole of button. Adjust width if necessary.



- 4. Lower needle into hole.
- Run machine **slowly** making 6 or more stitches to attach button.
- Remove work from machine, leaving 4" (10cm) of thread.
- To secure stitching, pull thread ends to inside of garment and knot close to fabric.

SECTION 6 CARING FOR YOUR MACHINE

REMOVING AND REPLACING BOBBIN CASE

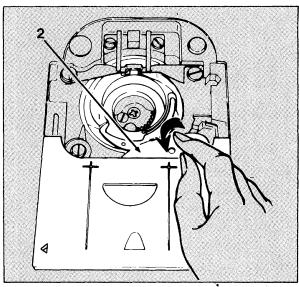


CAUTION: Before cleaning or adjusting the machine, remove plug from the socket outlet.

- Raise presser foot and needle.
- Open slide plate and remove bobbin.

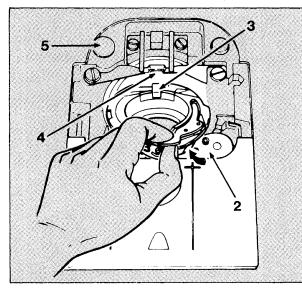
To remove the bobbin case, the needle plate must be removed first.

• Lift needle plate (1) from right corner and slide out from under foot.



TO REMOVE BOBBIN CASE

- Push lever (2) toward you until it stops, and hold in this position.
- Lift bobbin case up and guide it out toward you, as shown.



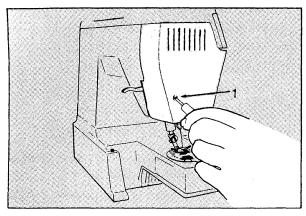
TO REPLACE BOBBIN CASE

- Push lever (2) toward you until it stops, and hold in this position.
- Guide bobbin case into place, making sure block (3) is all the way under metal bracket (4).
- Return lever (2) to locking position over top of bobbin case.

NOTE: After locking case in place, be sure it is **not tight**, but can **move slightly**.

- To replace needle plate, slide it under pin (5) and push it to the left.
- Press needle plate down in place.
- Insert bobbin and close slide plate.

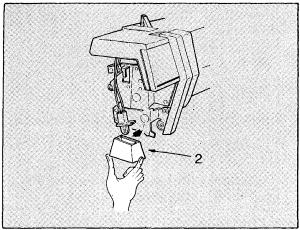
REMOVING AND REPLACING THE LOW VOLTAGE LIGHT BULB CAUTION:



Before changing light bulb, make sure you have removed plug from socket outlet. Be sure to replace the face plate which covers the light bulb before operating the machine.

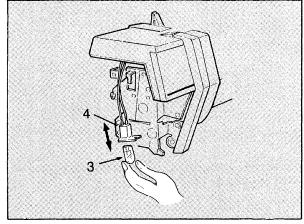
Your LCD machine is designed to use a 5-watt/13-volt light bulb.

- To change the light bulb, the face plate must first be removed.
- Loosen and remove screw (1).
- Slide face palte down and away from machine.



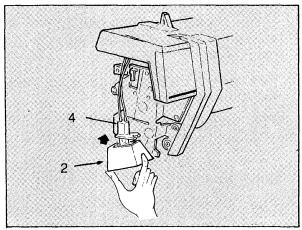
To remove the light bulb

- Pull down on the light reflector (2).
- Pull down and wiggle the low voltage light bulb until the light bulb is free from the socket (3).



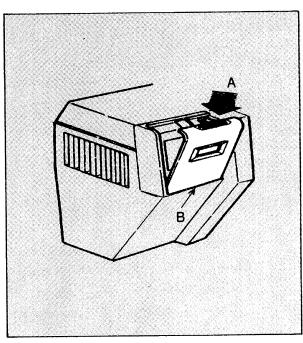
To replace the light bulb

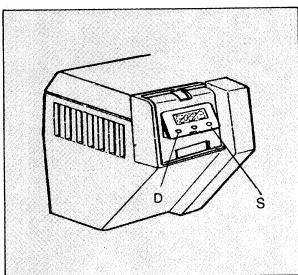
 Push the new low voltage light bulb (3) into the light socket (4). The orientation of the light bulb makes no difference.

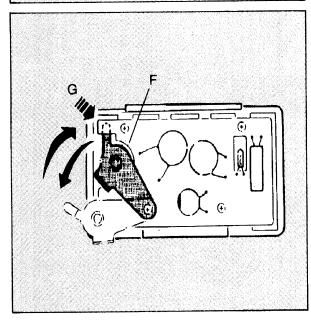


 Push the light reflector (2) into place. Make sure the small end of the light reflector is aligned with the small end of the light socket (4).

LCD CLOCK OPERATING INSTRUCTIONS







IMPORTANT:

Disconnect the machine power before you remove the clock cover.

REMOVING AND REPLACING THE COVER:

Removal:

Press down at point "A" on

the clock cover and pull

towards you.

Replacement: Fit the clock cover into place

by putting the tab at "B" into place and then pushing the

tab at "A" into place.

READING THE TIME:

Hours and minutes are displayed with blinking colons.

SETTING THE TIME:

Hour:

Press the "S" button three times. The hour followed by either an

"A" for AM or a "P" for PM will appear. Press the "D" button to

advance the time.

Minute:

Press the "S" button once again.

A stationary colon followed by the minutes will appear. Press the "D" button to advance the

minutes.

Important: Press the "S" button once more and then press the "D" button to start the colons blinking and the

clock running.

CHANGING THE BATTERY:

Removal:

• Slide the battery retainer down to remove the battery.

Replacement: • Place the battery in area "F". Make sure the "+" side of the battery is facing you.

> • Slide the battery retainer up to position "G".

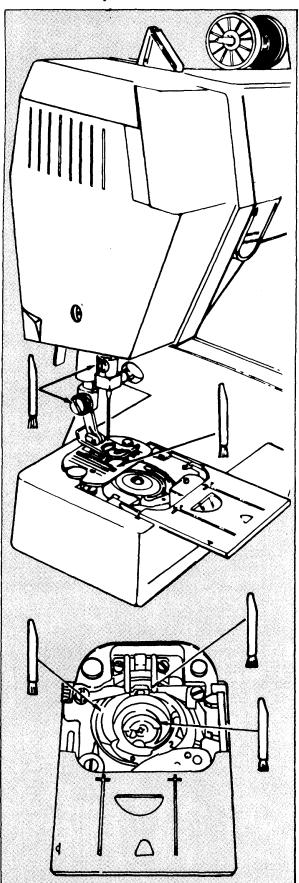
> Make sure the notch on the battery retainer is under the dotted position of the diagram.

Battery:

Use a 1.5V 23-115 battery or its equivalent. (LR-44 or A76)

CLEANING THE MACHINE

Your machine is designed to give you many years of dependable service. To ensure this reliability, take a few minutes to keep the machine clean. How often you clean it depends on how often you use it.



- Using the lint brush, remove lint or dust from:
 - presser bar
 - needle bar
 - machine surface (if necessary, dampen a soft cloth and use a mild soap to clean the surface)

- Remove needle plate as instructed and clean exposed area with a lint brush.
- bobbin case (if there is a lot of lint in this area, remove the bobbin case for cleaning)

PERFORMANCE CHECKLIST

When sewing difficulties occur, look back through this manual to make sure you are correctly following the instructions. If you still have a problem, the reminders below may help you to correct it.

Needle Does Not Move

Is machine connected to electrical supply? Is the power and light switch on? Is controller connected? Is air supply from controller clear?

Needle Moves But Stitch Is Not Formed

Is needle defective?
Is needle fully inserted into needle clamp?
Are bobbin and needle correctly threaded?
Is bobbin correctly inserted into bobbin case?

Needle Breaks

Is needle straight and sharp?
Is needle correct size?
Is needle fully inserted into needle clamp?
Are controls properly set?
Are accessories correct for application?

Bobbin Winding Difficulties

Is thread unwinding freely from spool? Is bobbin winder engaged? Is thread end securely held at start of wind?

Upper Thread Breaks

Is machine properly threaded?
Is thread freely unwinding from spool?
Is proper spool cap being used?
Is needle correct size for thread?
Is upper thread tension too tight?
Is bobbin case properly inserted?
Is bobbin rim free of nicks?

Lower Thread Breaks

Is bobbin correctly wound?
Is bobbin correctly inserted into bobbin case?
Is bobbin case correctly threaded?

Skipped Stitches

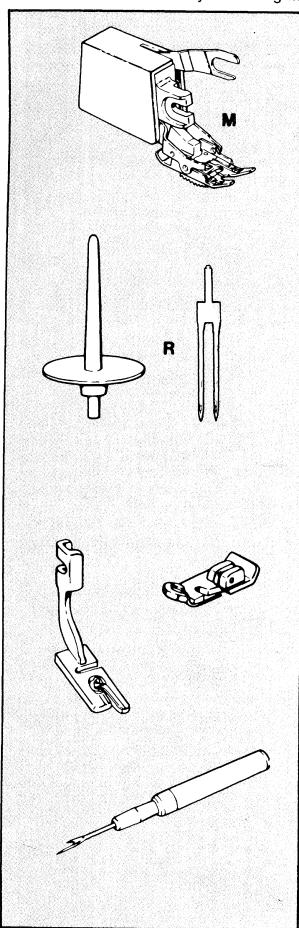
Is machine properly threaded? Is fabric firmly held down? Is needle correct style and size? Is needle straight and sharp?

Fabric Does Not Move Properly Under Presser Foot

Is presser foot correctly attached to machine?
Is presser foot lowered?
Is stitch length correctly set?

ADDITIONAL ACCESSORIES

Additional Accessories for your sewing machine are available at your sewing center.



Even Feed Foot (M) is used for sewing hard-to-feed pile, stretch and bonded fabrics. Also excellent for plaids, stripes and topstitching.

Twin Needle and Spool (R) are used for decorative twin needle (2 threads) stitching on woven and knit fabrics.

Overedge Foot, use with Overedge Stretch Stitch for seams in stretch fabrics.

Narrow Hemmer Foot is used to stitch a narrow hem in a single operation.

Seam Ripper, use to pick and cut threads quickly and neatly.

PERSONAL NOTES

PERSONAL NOTES

INDEX

Accessories4,5,4	
Accessory Storage, Built-In	
Balance 2	
Basting2	
Blindstitch Hems2	
Blindstitch Presser Foot5,2	9 Presser Foot Lifter
Bobbin	5 Presser Foot With Shank
Winding A 15,1	6 Changing
Inserting A	7 Principal Parts:2,
Bobbin Case 4	1 Reverse Stitching 22
Removing4	1 Satin Stitching 2
Cleaning4	4 Seams:
Bobbin Thread, Raising1	8 Curved 2
Border Design32,33,	36 Finishes 28,3
Button, Attaching A39.	Keeping Straight2
Button Sewing Foot	5. Overedge Seam 3
Buttonhole Attachment4,	Sewing A Seam 2
Buttonholing, One-Step37,	38 Seam Guide
Caring for Your Machine 41,	
Cleaning The Machine	
Connecting The Machine	
Corners, Turning Square	
Darning	Arrow Stitch 3
Darning and Embroidery Foot 5,	
Attaching Foot	
Decorative Stitches;	
Edging(
Embroidery, Free Motion	
Fabrics	
Placing Under Foot	
Face Plate	
Fagoting (
Feed Cover	
Attaching Feed Cover	
Free-Arm Sewing	
Handle Storage	
Hemstitching29,	
Lace Trim;	
Light Bulb	Total Control of the
Replacing	
Lint Brush 4.4	
Monogramming	
Needles	
Selecting	
Changing	
Needle Plate	
Changing	A.m. 1. 144: 1.1
Straight Stitch Needle Plate 5,	
Needle Threader	
Attaching	- T
Operating The Machine	
Pattern Selecting	
Performance Checklist	
	Zipper Foot